

Title (en)

SUGAR HYDROGENOLYSIS WITH MOLYBDENUM CO-CATALYST SELECTIVE FOR PRODUCING GLYCOLS

Title (de)

ZUCKERHYDROGENOLYSE MIT ZUR HERSTELLUNG VON GLYKOLEN SELEKTIVEM MOLYBDÄN-COKATALYSATOR

Title (fr)

HYDROGÉNOLYSE DU SUCRE AVEC CO-CATALYSEUR AU MOLYBDÈNE SÉLECTIF POUR LA PRODUCTION DE GLYCOLS

Publication

EP 3749630 A4 20210414 (EN)

Application

EP 19751567 A 20190129

Priority

- US 201862628644 P 20180209
- US 2019015626 W 20190129

Abstract (en)

[origin: WO2019156854A1] A hydrogenolysis process is disclosed for directly converting a sugar feed comprised of a high fructose feedstock, a high sucrose feedstock, or a combination of these to a mixed lower polyols product including both propylene glycol and ethylene glycol. The process provides greater propylene glycol selectivity than ethylene glycol selectivity such that the propylene glycol is present to a greater extent than the ethylene glycol in the mixed lower polyols product. The sugar feed and a source of hydrogen are supplied to a reaction vessel and reacted in the presence of a hydrogenolysis catalyst comprising molybdenum (Mo) and ruthenium (Ru).

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

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- [A] US 2011312488 A1 20111222 - CHEN JOHN Q [US], et al
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- See references of WO 2019156854A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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DOCDB simple family (application)

US 2019015626 W 20190129; BR 112020016164 A 20190129; CA 3090773 A 20190129; CN 201980015918 A 20190129; EP 19751567 A 20190129; JP 2020542792 A 20190129; KR 20207025530 A 20190129; MX 2020008341 A 20190129; RU 2020127963 A 20190129; US 201916968154 A 20190129